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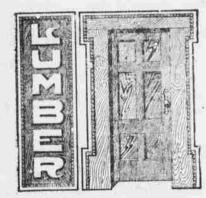


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are made to perfection from our Pueblo Indian name for turquoise. Lumber) because the wood is By far the largest ancient turquoise the greater portion of the southwest, Gunsel that scheming genius would

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IN UNITED STATES

Miles South of Santa Fe

ANCIENT TURQUOISE WORKINGS

Brief Review of Turquoise Industry in the South-

(By Fayette A. Jones in Mining and freedom from fracture, World.)

To the archaeologist, to the geologist and to the mine operator, there is 20 pounds, and had a portion of the nothing of more interest in our divers handle intact about the grove when sified mineralogical resources, than found; the desiccated condition of the what is to be found in connection region preserved this relic of a vanwith the turquoise mines of the south- ished people.

Until about 30 years ago, most all of the turquoise came from Persia. near Nishapur, Khorassan, on the southern slopes of Mount Ali-Mirsa. northwest of Maden. Since that time the American gem-stone has largely supplanted the oriental product.

Turquoise has ever been an attractive stone of the precious variety and Mount Chalchibuiti, in 1680, killing has entered largely into the adornment of the person of both modern the Spanish oppressors resulted in and prehistoric times. The mineral them being driven from the country, callais spoken of by Pliny, is now until about the close of the 17th cengenerally regarded as turquoise. The Mohammedans used the polished gem- cupation of the Spaniard the Indian stones for decorative and ornamental effects in their great tabernacles of formerly worked by the Jesuits; and worship; as likewise did the ancient on the return of the Spaniards, more filed a suit for libel in behalf of May-Peruvians and Mexicans in beautify- than a century afterward, they were nard Gunsel of this city and the owning their altars in the temples of the given to distinctly understand that er of the electric light plant at Gallup, sun. In all probability the throne of they could not again engage in min- against the McKinley County Repubgold in the gilded palace of Tezones ing, but should follow only the purlican, a weekly newspaper published was inlaid with turquoise from the suits of agriculture and stock-raising. at Gallup and against Gregory Page

southwest by the Pueblo Indians an M., are the largest of any in the spiration of the article complained of tedates the discovery of America by southwest, it is observed that no tur- The suit alleges that Gunsel's charseveral centuries. The profound quoise deposits of any note have ever acter has been seriously damaged by workings at Mount Chalchihuitl, south been found in the west that did not the publication of the article and asks of Santa Fe, had attained large pro- show the evidence of prehistoric minportions, if not their full greatness, ing. Old pits and dumps in which before the advent of the Spaniard, Al- occur fragments of pottery, stone hamvar Nunez Cabeza de Vaca in his wan- mers, etc., are found at the turquoise dering, A. D. 1534, with his three com- deposits in the Burro mountains, at torial in the Gallup newspaper treatpanions, speaks of turquoise which Hachita, in the Jarilla mountains of ing of the affairs of the light plant he saw at his farthest point north in New Mexico; Mineral Park and Tur- there against which Page and his as the Rio Grande valley, presumably quoise mountain, Arizona; Saguache sociates have been waging a vigorous near the present site of Bernalillo; county, Colorado; in Fresno county, campaign for some time past. The this turquoise evidently came from California; and in southern Nevada, particular words on which the suit is Mount Chalchihuitl workings about not far from Columbus. In most all based, are as follows: 30 miles distant. Chalchihuitl is the of the burial grounds and mounds of

perfect in every particular and working is on the west side of Mount turquoise beads and pendants are again have the laugh on the people of free from every imperfection of Chalchihuiti, New Mexico. Owing to found. it can be absolutely relied upon knowledge of the magnitude of the stone than the oriental product. by carpenters and builders, and same. To appreciate it one must see Turquoise, mineralogically defined. all seasible. wide-awake archi- it with his own eyes. The working at is a hydrous phosphate of aluminum, lup Light Plant and the Republican, tects beceabouts particularly this point is, indeed, marvelous, colored with a complex copper com- Page and his associates dates from mention our Lumber in their when we take into consideration pound. The product is found in and the time when the Albuquerque man that this great excavation was chiefly belongs wholly to the oxidized zone became the owner of the light plant wrought, or perhaps wholly, accom- The best and purest specimens of there. Page formerally owned the If you want anything on earth-try dumps, associated with fragments of

quoise mining in the southwestern part of the United States. At this point it would be well to note that while tradition from the early Spansh records tend to convey the idea that these mines were worked by the Jesuit Fathers prior to the year 1680. there has never been to the writer's It Is Located Only Fourteen knowledge, a single copper or from ntensil or anything of distinctly Spanish origin that would tend to prove any of this work was done under Spanish rule. If otherwise true, then implements utensils and mining methods employed by the Jesuits were identically the same as those of the Pueblo Indians. All of the stone bammers and sledges found about these ancient diggings were made from hornblende-andesite, common to the region, and especially adapted for the purpose used, due to toughness

> One stone sledge taken from these old workings is said to have weighed

The finding of a number of skeletons some 50 feet beneath the present surface of this great pit indicate that they lost their lives from a caving of the walls of the excavation. History recites that the Pueblo uprising in the year of 1680 was due to the wanton cruelties inflicted by the Spaniards on the Indian miners. And when the great cave-in occurred at GREGORY PAGE SUED some 20 Indian slaves, a revolt against tury. During this interval of non-oc-

The mining of turquoise in the Chalchibuitl, in Santa Fe county, N. owner of the newspaper and the inthe aborigines, found scattered over cans and Independents favorable to

knots, cracks and warpings. the peculiar configuration of the ground and extent of the working no rank and is a formidable rival of the people for two years more." Meaning as the complaint sets for that the seasoned, dried and shrunk, so tion that would convey any adequate pronounce it even a more beautiful

> turquoise taken from the ground rare- light plant which has been the subage. Hundreds of stone implements by exceed a depth of 75 feet. Then, ject of a continuous string of litigawere found by the writer in the for the origin of turquoise, we must tion for several years past. The light confine our research to the oxidized plant has a franchise for lighting the the most ancient Pueblo pottery, fully zone and that, not far below the sur- town of Gallup and the present camface. Here, the chemical action is paign is intended to forfeit that franthe greatest, and when the necessary chise and make a contract with one mineral constituents are present in of the power plants at a near by coal the enveloping rocks, the compond mine to light the town. It is alleged mineral of turquoise is the result. So by enemies of the plant that the there must be present in the rock-matrix the elements of copper and the given is not up to contract. The phosphorus, which together with the more plentiful substances of silica, the western town and it is charged,

> > is much altered through kaoliniza with being the boss of the town. The tion of the feldspar, which furnishes articles directed against Mr. Gunsel the aluminum bygrate. The matrix are a direct result of this war. Mr. rock is usually an altered granite Gunsel who has made is home in Alor trachyte, containing apatite, from buquerque for some years past has rewhence the phosphoric acid and cently become vice-president and lime come. Perhaps, some of the manager of the Federal bank in Los phosphorus may be derived from de- Angeles where he expects to make his caying organic matter at the surface home in the future. and sinks into the ground through the agency of meteoric waters. It is fur- COMMISSIONERS REFUSE ther observed that the turquoise is usually found in and along defined seamlets and checks in the matrix P. Badaracco of Old Albuquerque rock; this would favor channels for the descending waters to circulate, which carry the essential constituents necessary to form the turquoise. Should the rock matrix contain too county commissioners at a meeting high a percentage of copper and the held yesterday in the court house, therefore essential that the elemental clean slate on current accounts for substances entering into the formathe the new year. All bills were paid tion of a perfect turquoise should ex dollar for dollar. ist in a definite proportion in the rock matrix and the extremes of a maximore elements be lacking. Every chemist understands the effect that an excess or deficiency that some rerum or a minimum of any one or agent has in making an analysis; doubtless, the same thing holds good testing against the granting of the liin the laboratory of nature.

A careful study of most of the mines in the southwest, relative to the ori- precinct No. 1, San Jose, for the opengin of turquoise, seems to leave abling of a road from the Phelan place solutely no doubt that, the beautiful to the Rio Grande was laid over until gem-stone is wholly a creation due to the first regular meeting in January. complex chemical processes, chiefly The board will met again the first through the agency of meteoric wat Monday in January. The only other

are given for comparison:

Cough Caution

mal tutes. But a bilindly suppress it with applying poison. It's strange how some than hally come about. For twenty years 19: Sho as constantly warned beople not to take cong strates of prescriptions containing Opini boroform, or similar poisons. And now a lift to though—congress says. Put it on the label to bosons are in your Cough Mixture." Goesers good! Hereafter for this very reasonized by the didners, about dirests on having Dr. Shoop ough Cure. No poison marks on Dr. Shoop size and none in the medicine else it must be to the label. And it snot only safe, but word to be by those that know it best, a truly read to be by those that know it best, a truly read to be by those that know it best, a truly read to be by those that know it best, a truly re

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Voy. Analyst.	ecocone long.

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McKinley County Republican Made Co-Defendant-Interesting Franchise War in Gallup.

tribes obliterated many of the mines Albuquerque, N. M., Dec. 29,-At torney T. N. Wilkerson yesterday While the ancient workings about who the complaint alleges is the chief damages in the sum of \$25,000 and

The article complained of is an edi-

"With a mixed board of Republiing, as the complaint sets for, that the Save Money and Inconvenience by Purchasing Wells Fargo

ice given is not up to contract. The war has gotten well into politics in lime and water, in order to form tur-It is observed wherever turquoise is tween the Page faction and the sofound that the enclosing rock-system called Independents, who charge Page

SALOON LICENSE.

Made the Request but Petitions Were Presented Against It.

Albuquerque, N. M., Dec. 29 .- The ground be not sufficiently leached of audited and ordered paid the bills its cupiferous compounds, a dark against the county for the last quarter greenish product is formed. It is of 1909, leaving the county with a

> A petition for a saloon license, submitted by P. Badaracco was before also before the board petitions procense. The board declined to issue it.

A petition from property owners in

ers circulating through a matrix in action of importance yesterday was which is now beginning construction Grande.

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Charles W. Dudrow plished by implements of the stone

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